

ABSTRACT

A combination fin-type mixer and rotor/stator-type homogenizer provides the ability to perform low-shear mixing or high-shear homogenizing by a single device without changing attachments or hardware. The low-shear mixing fins extend outwardly from the stator of the high-shear rotor/stator homogenizer, and the rotor rotates within the stator. For high-shear homogenizing, the rotor is rotated within the stator. And for low-shear mixing, the finned stator is selectively interlocked to and rotated with the rotor. A method of combining components includes resetting the device from low-shear mixing mode to high-shear homogenizing mode, and vice versa, without changing attachments or hardware.